

Drought Monitoring Technical Committee Update

to the

Arizona Interagency Coordinating Group

November 16, 2016

Nancy J. Selover
Arizona State Climate Office

Precipitation Comparison Colorado River Basin

WY 2012

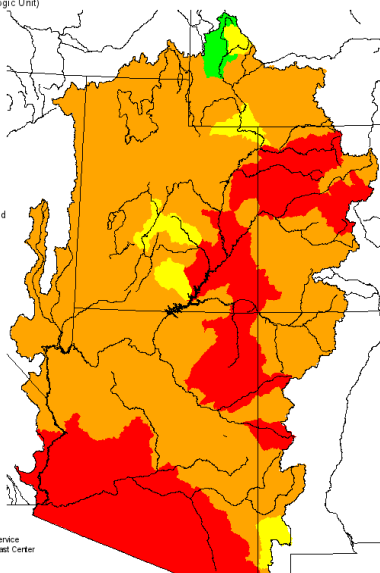
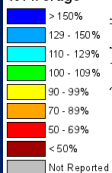
WY 2013

WY 2014

Seasonal Precipitation, October 2011 - April 2012

(Averaged by Hydrologic Unit)

% Average

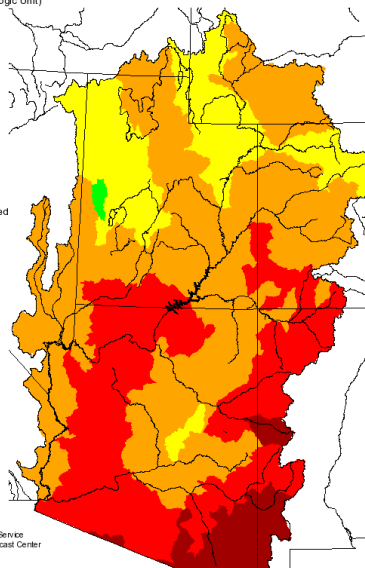
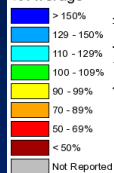


Prepared by
NOAA, National Weather Service
Colorado Basin River Forecast Center
Salt Lake City, Utah
www.cbirc.noaa.gov

Seasonal Precipitation, October 2012 - April 2013

(Averaged by Hydrologic Unit)

% Average

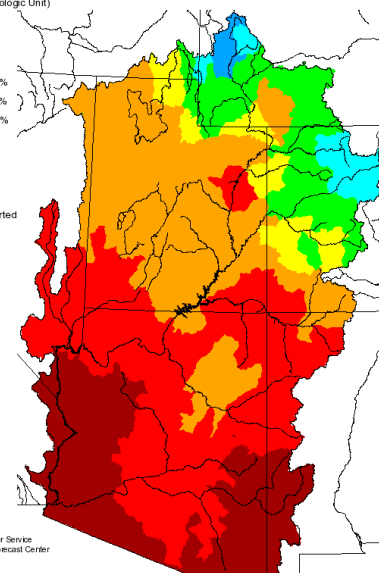
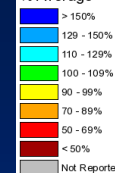


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Seasonal Precipitation, October 2013 - April 2014

(Averaged by Hydrologic Unit)

% Average

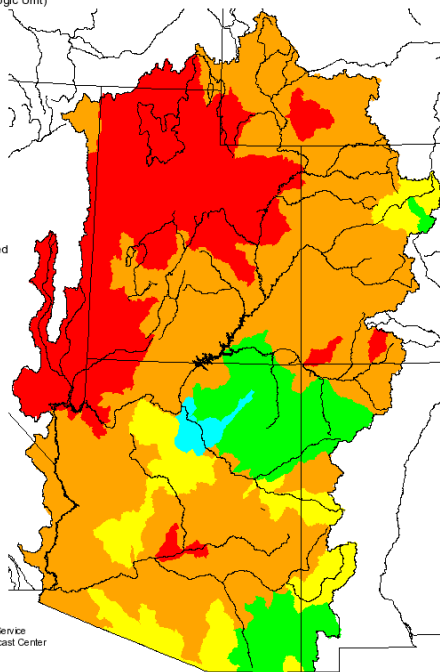
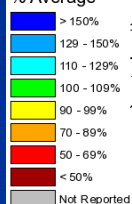


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Seasonal Precipitation, October 2014 - April 2015

(Averaged by Hydrologic Unit)

% Average



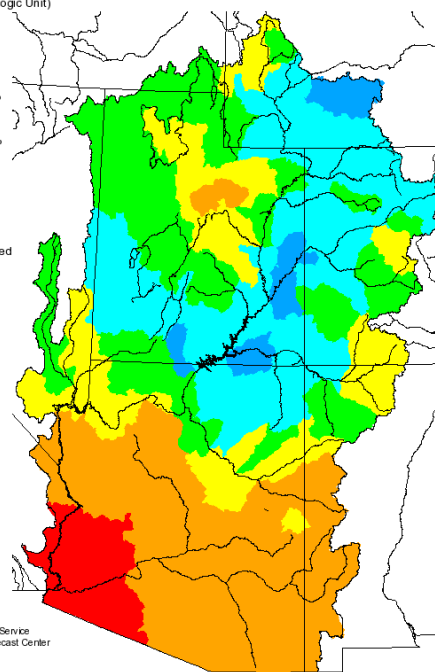
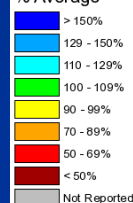
Prepared by
NOAA, National Weather Service
Colorado Basin River Forecast Center
Salt Lake City, Utah
www.cbirc.noaa.gov

WY 2015

Seasonal Precipitation, October 2015 - April 2016

(Averaged by Hydrologic Unit)

% Average

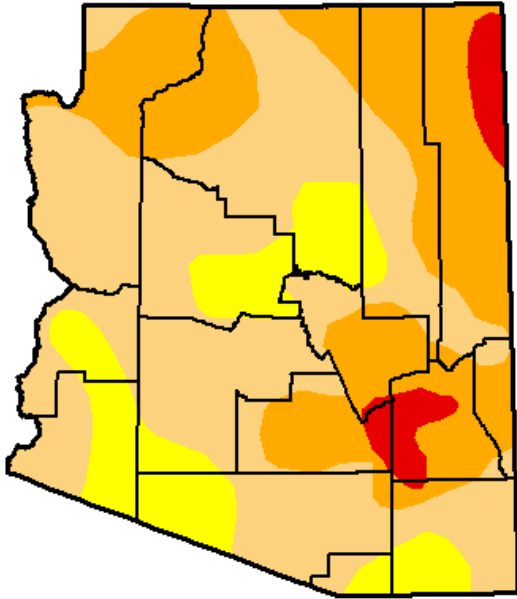


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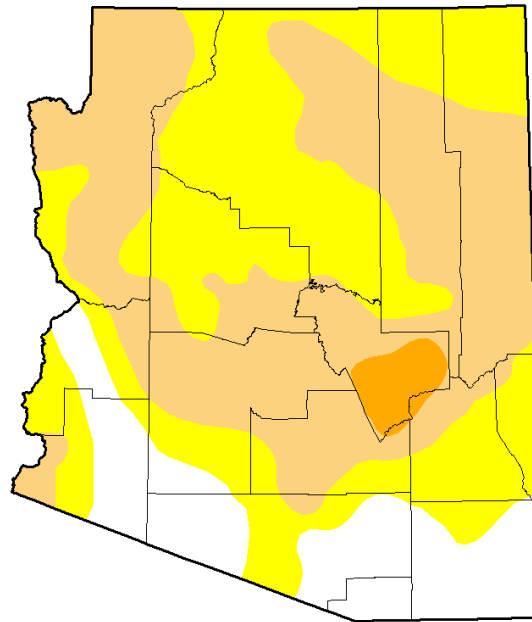
WY 2016

National Drought Monitor Comparison (Short-Term)

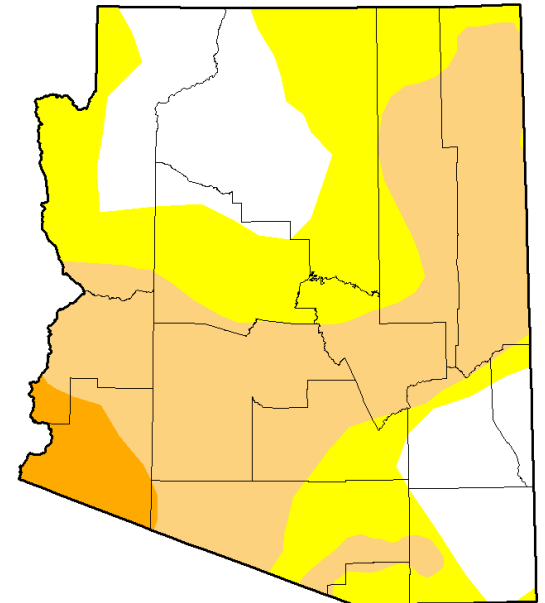
November 4, 2014



November 3, 2015



November 1, 2016



National Drought Monitor Comparison (Short-Term)

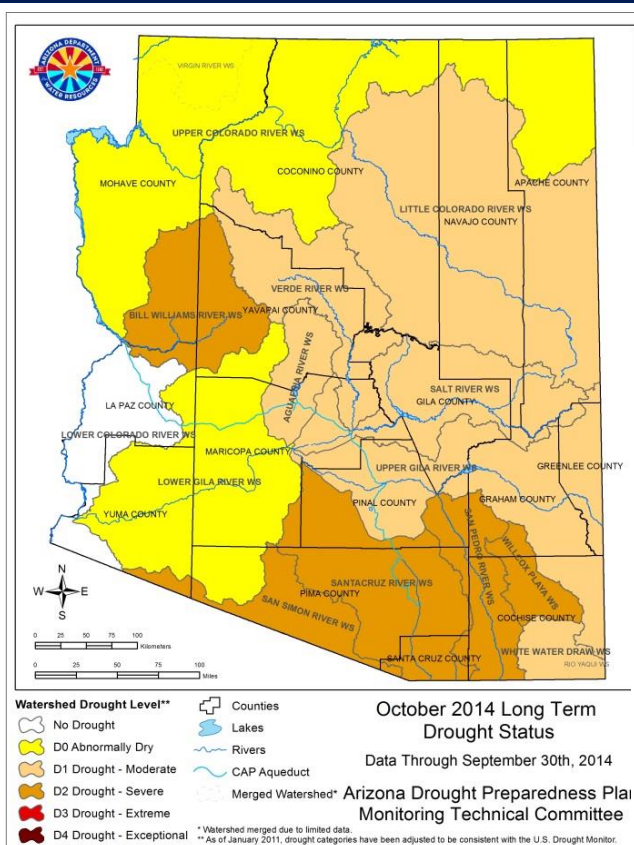
Percent of State in Drought

Category	Nov 4, 2014	Nov 3, 2015	Nov 1, 2016
No Drought	0%	16%	23%
Abnormally Dry	100%	39%	32%
Moderate Drought	50%	43%	41%
Severe Drought	31%	2%	4%
Extreme Drought	4%	0%	0%
Exceptional Drought	0%	0%	0%

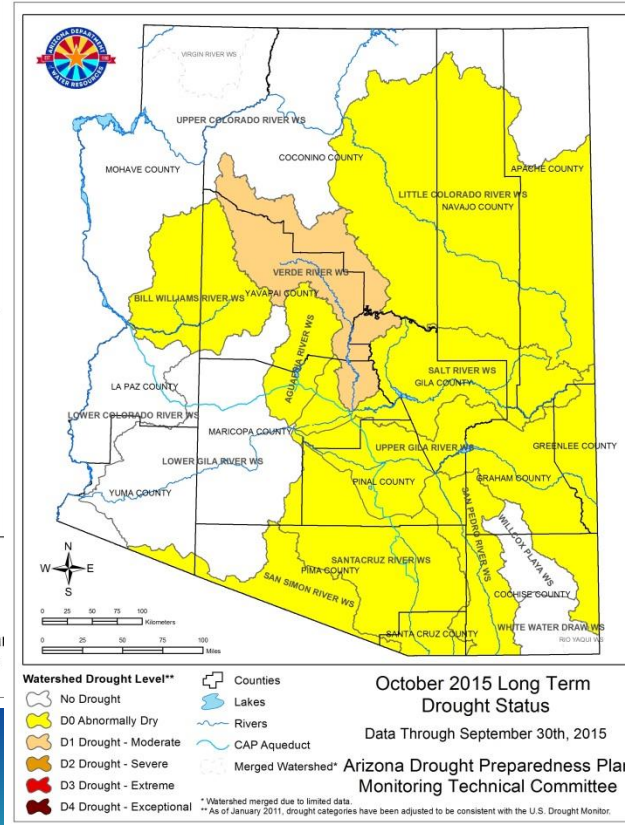


Long Term Drought Status Comparison

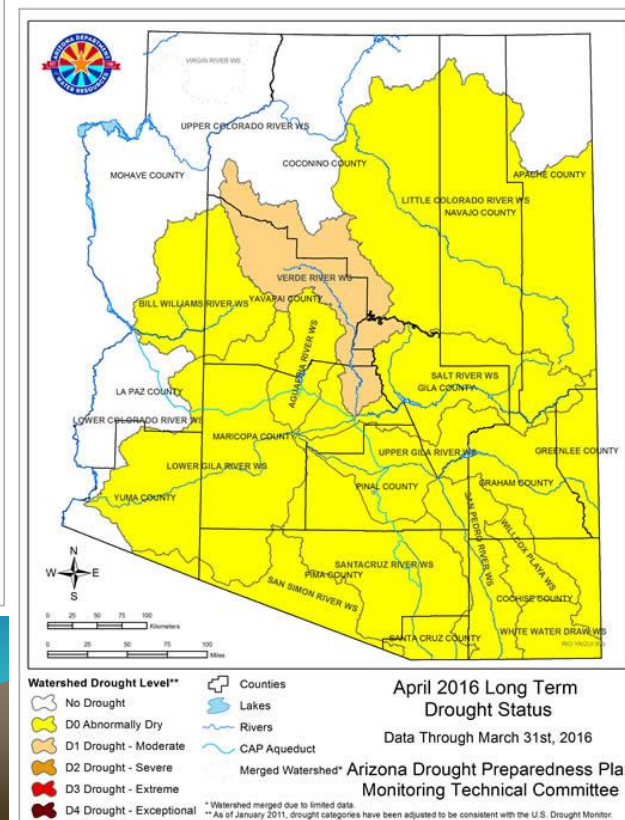
October 2014



October 2015



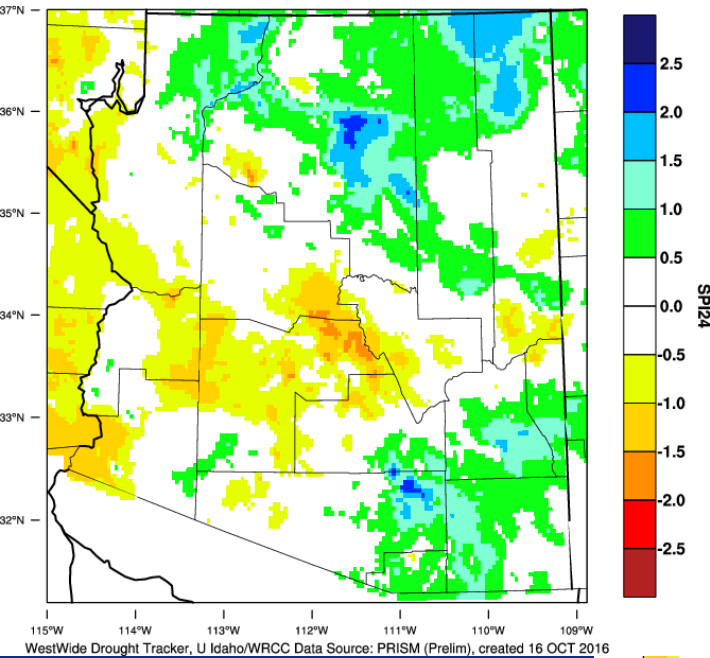
October 2016



Long Term SPI

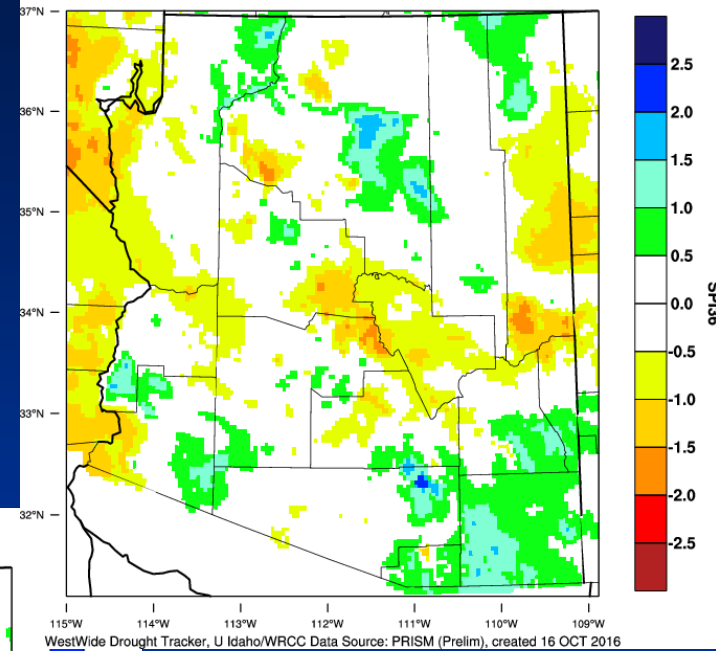
24 Month SPI

Arizona - 24 month SPI
September 2016

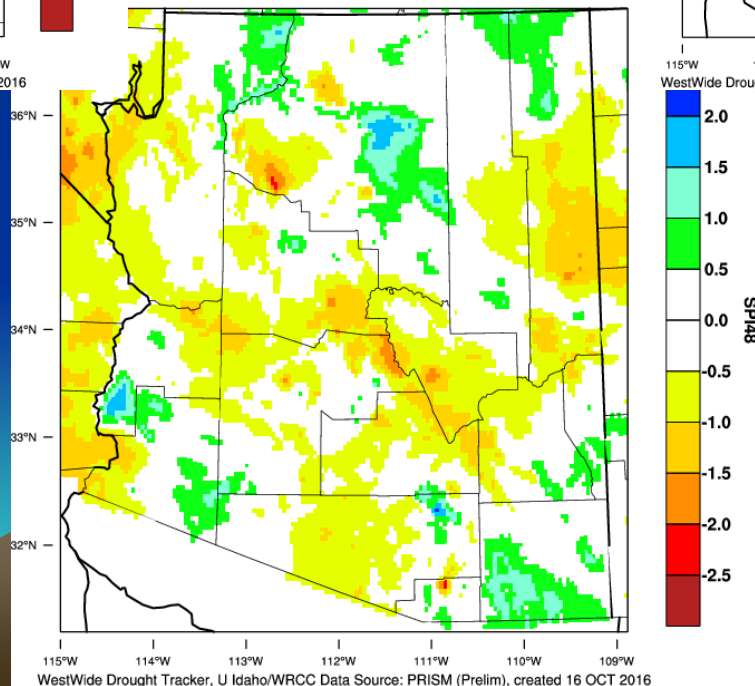


36 Month SPI

Arizona - 36 month SPI
September 2016



Arizona - 48 month SPI
September 2016

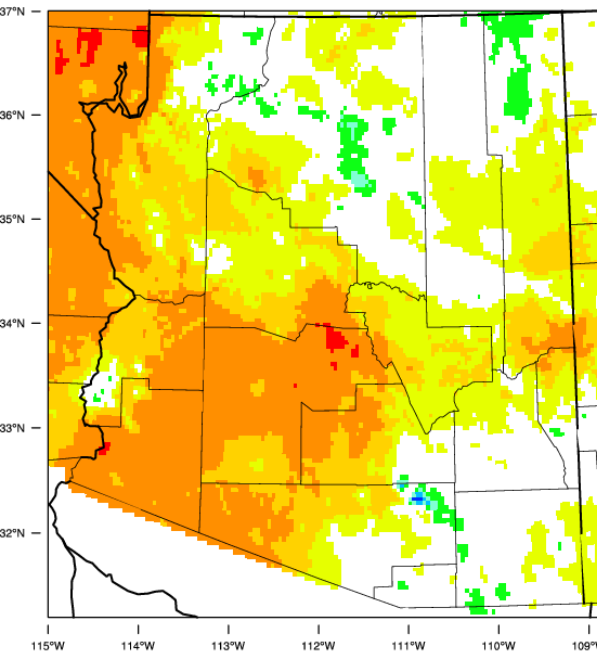


48 Month SPI

Long Term SPEI

24 Month SPEI

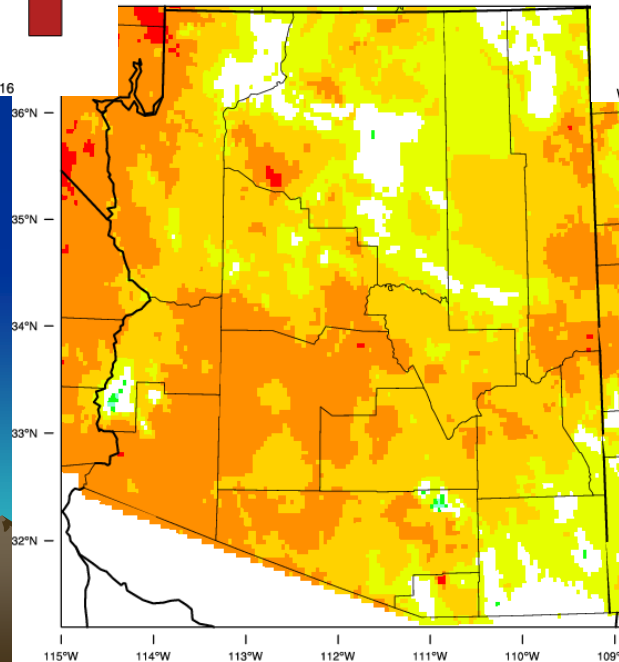
Arizona - 24 month SPEI
September 2016



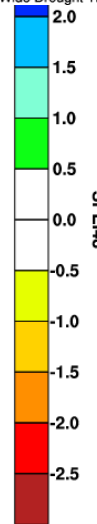
WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 16 OCT 2016



Arizona - 48 month SPEI
September 2016

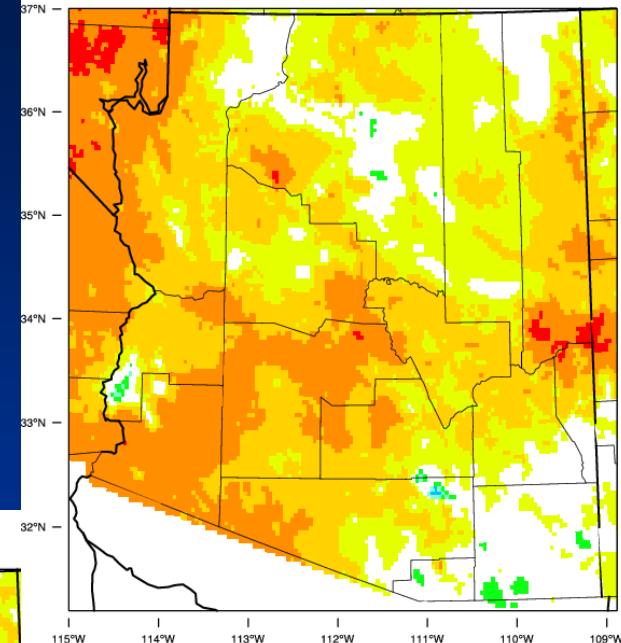


WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 16 OCT 2016

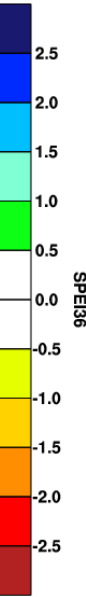


36 Month SPEI

Arizona - 36 month SPEI
September 2016



WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 16 OCT 2016

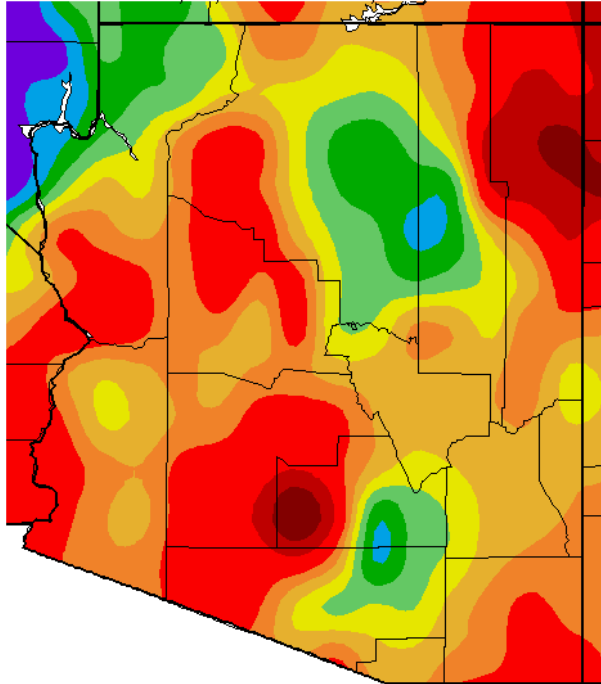


48 Month SPEI

Precipitation Percent of Average

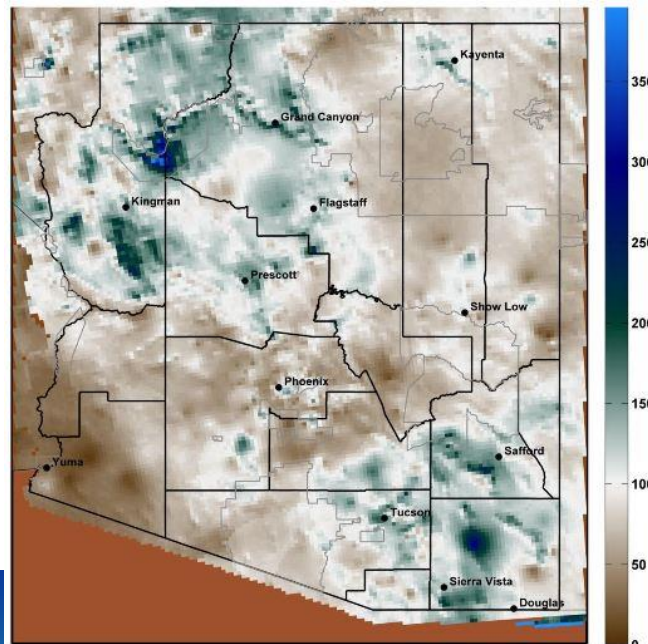
Winter

Percent of Average Precipitation (%)
10/1/2015 - 4/30/2016



Generated 5/01/2016 at WRCC using provisional data.
NOAA Regional Climate Centers

Monsoon 2015

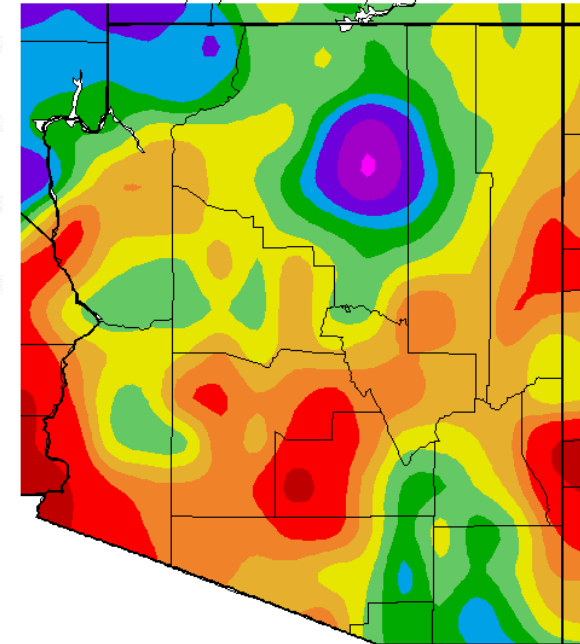


Map produced using daily total precipitation estimates from the NOAA National Weather Service Advanced Hydrologic Prediction Service (AHPS). Data information available at <http://water.weather.gov/precip/about.php>. Date created: 01-Oct-2016
University of Arizona - <http://cals.arizona.edu/climate/>



WY 2015

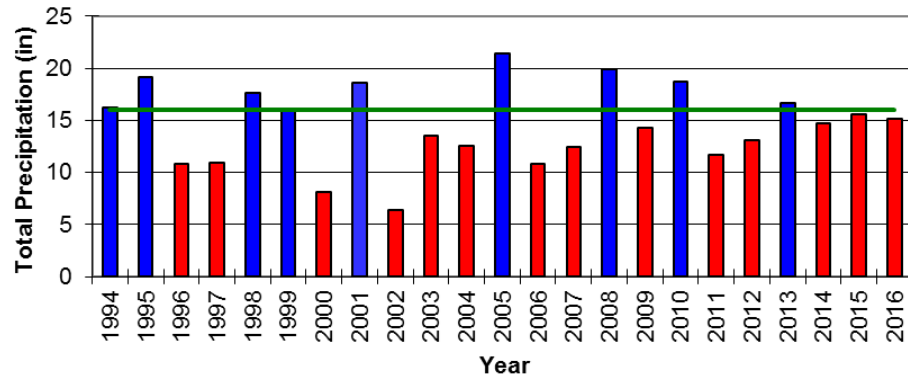
Percent of Average Precipitation (%)
10/1/2016 - 9/30/2016



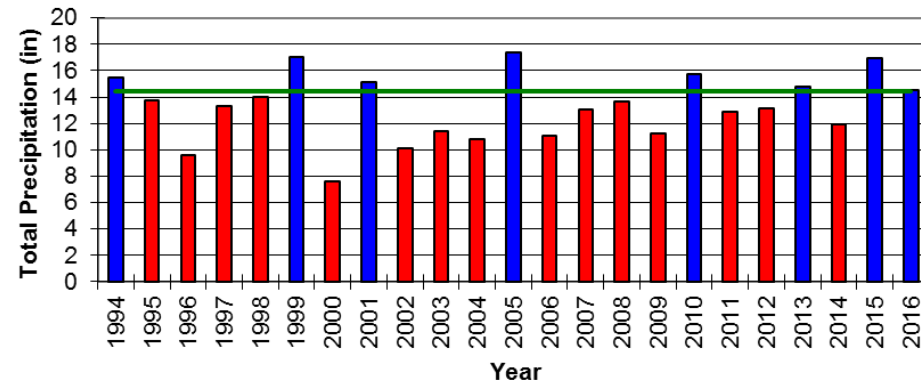
Generated 10/01/2016 at WRCC using provisional data.
NOAA Regional Climate Centers

Precipitation in Selected Watersheds for Past 23 Years

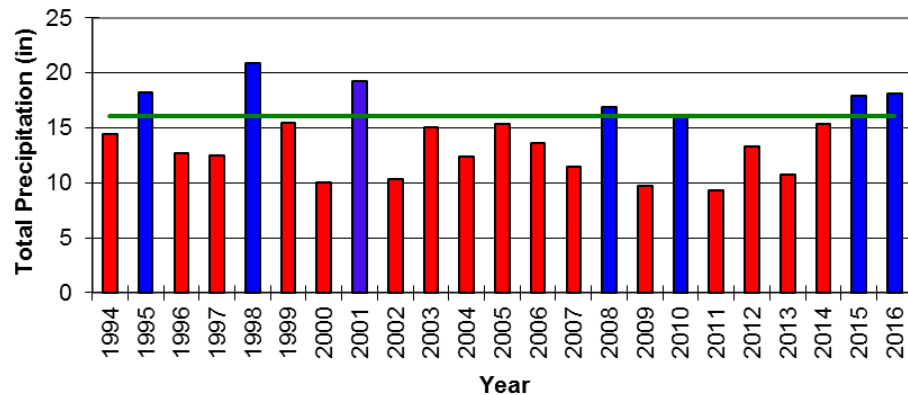
**Salt Watershed 12-month Precipitation
(Oct-Sep) Mean 16.05"
9 of last 23 years > mean**



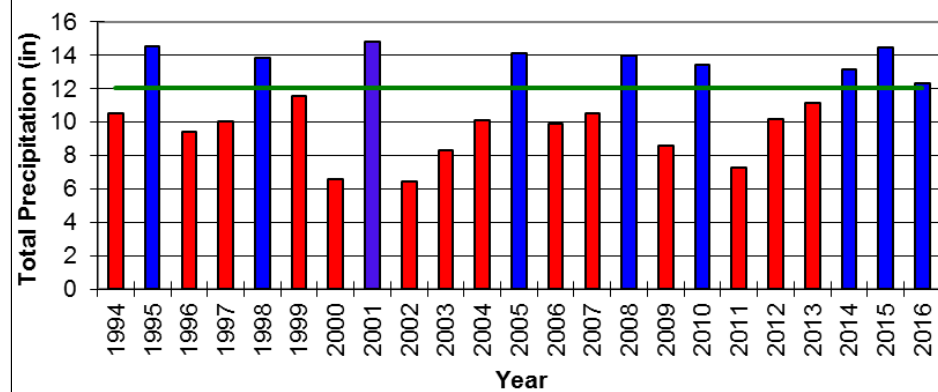
**Little Colorado Watershed 12-month Precipitation
(Oct-Sep) Mean 14.41"
8 of last 23 years > mean**



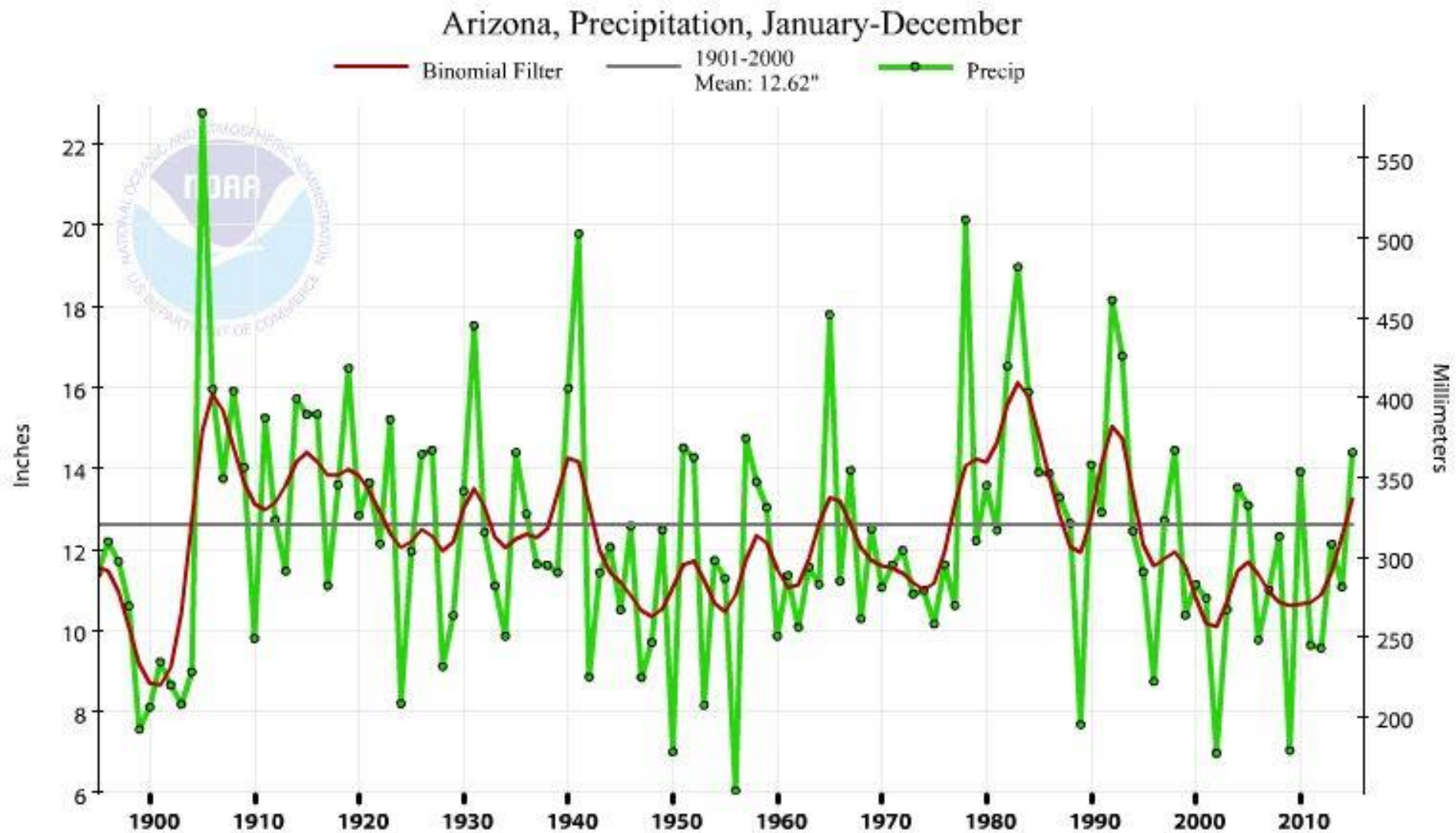
**Santa Cruz Watershed 12-month Precipitation
(Oct-Sep) Mean 16.05"
7 of last 23 years > mean**



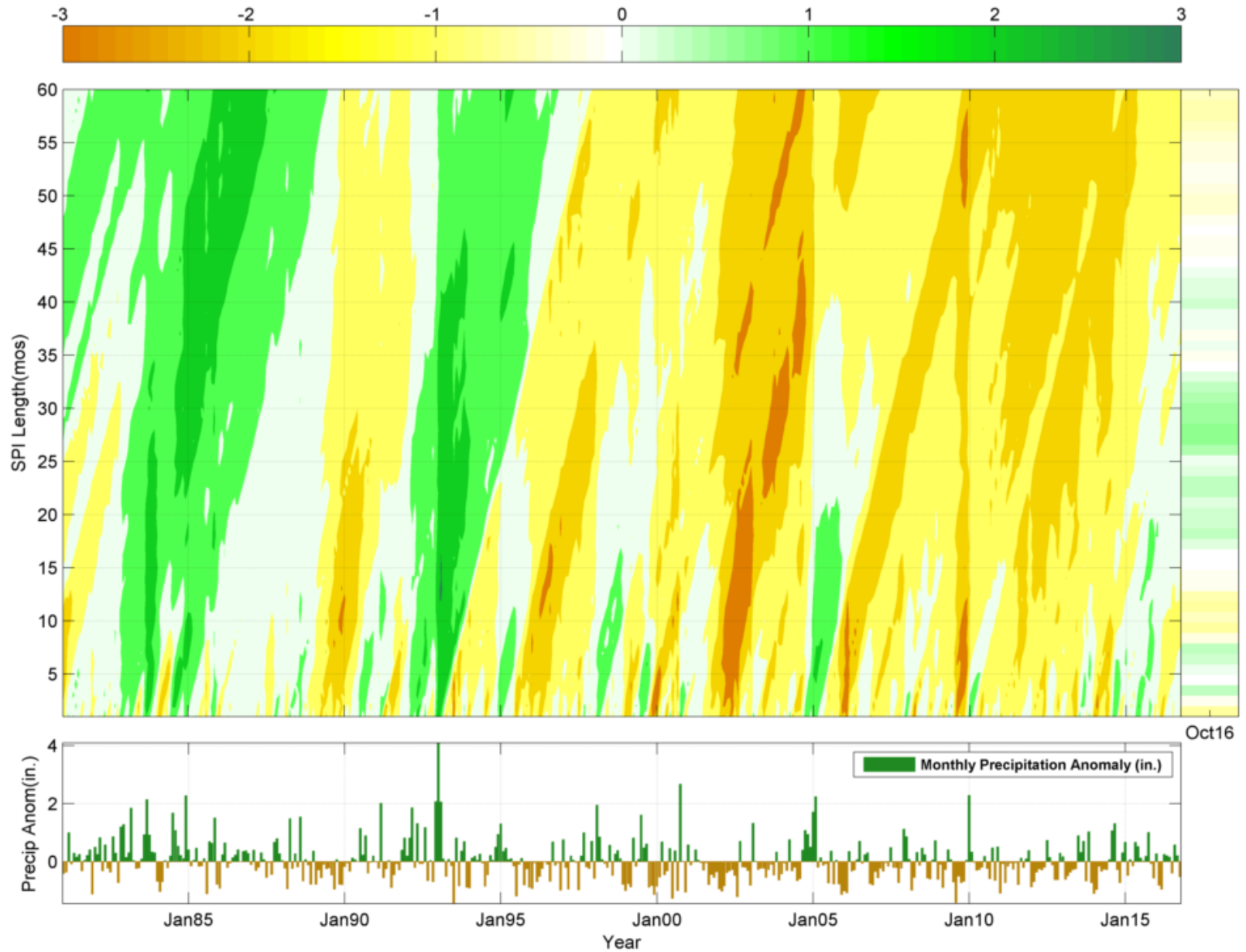
**Upper Gila Watershed 12-month Precipitation
(Oct-Sep) Mean 12.07"
9 of last 23 years > mean**



Long-Term Statewide Precipitation



Arizona - Standardized Precipitation Index - (1-60 mos, Jan1981 - Oct2016)



Questions ?

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